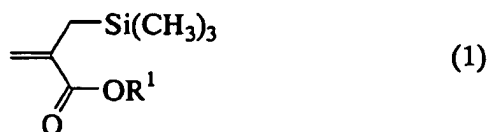


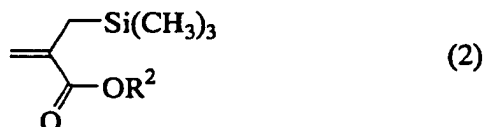
CLAIMS:

1. A polymerizable silicon-containing compound having the general formula (1):



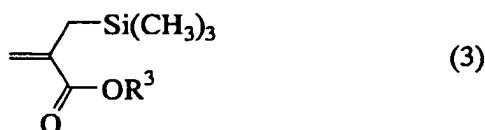
wherein R¹ is a hydrogen atom, halogen atom or monovalent organic group.

2. A polymerizable silicon-containing ester derivative
10 having an acid eliminatable substituent group according to claim 1, having the general formula (2):



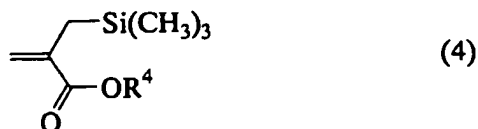
wherein R² is an acid labile group.

3. A polymerizable silicon-containing ester derivative
15 having a polar group according to claim 1, having the general formula (3):



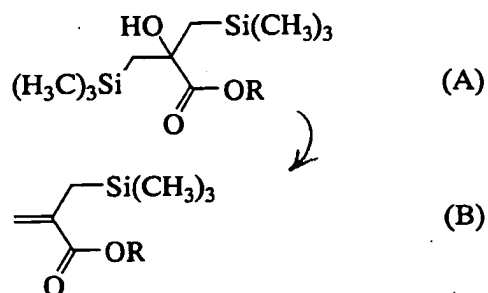
- 20 wherein R³ is a monovalent organic group of 2 to 30 carbon atoms containing an oxygen functional group such as hydroxyl, carbonyl, ether bond or ester bond.

4. A polymerizable silicon-containing ester derivative having a silicon-containing group according to claim 1, having the general formula (4):



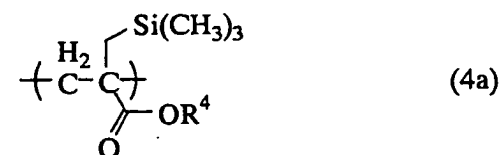
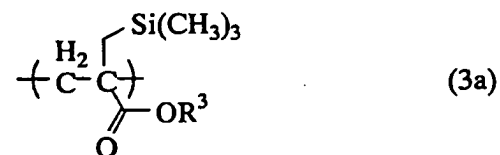
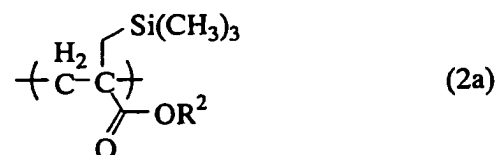
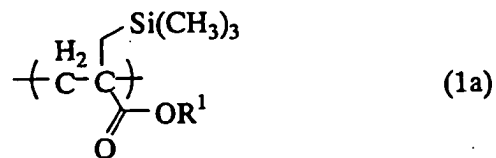
5 wherein R⁴ is a monovalent organic group of 3 to 30 carbon atoms containing at least one silicon atom.

5. A method for preparing a polymerizable silicon-containing compound having the general formula (B), comprising the steps of reacting an oxalate with a trimethylsilylmethyl-metal compound to form a β-hydroxysilyl compound having the general formula (A) and subjecting the β-hydroxysilyl compound to Peterson elimination reaction,



15 wherein R stands for R¹, R², R³ or R⁴, R¹ is a hydrogen atom, halogen atom or monovalent organic group, R² is an acid labile group, R³ is a monovalent organic group of 2 to 30 carbon atoms containing an oxygen functional group, and R⁴ is a monovalent organic group of 3 to 30 carbon atoms containing
20 at least one silicon atom.

6. A polymer comprising recurring units of the general formula (1a), (2a), (3a) or (4a) and having a weight average molecular weight of 2,000 to 100,000.



- 5 wherein R¹ is a hydrogen atom, halogen atom or monovalent organic group, R² is an acid labile group, R³ is a monovalent organic group of 2 to 30 carbon atoms containing an oxygen functional group, and R⁴ is a monovalent organic group of 3 to 30 carbon atoms containing at least one silicon atom.